

Appendix A: FCC Part 1.1307, 1.1310, 2.1091, 2.1093; IC RSS-Gen: RF Exposure

Per FCC 1.1310 Table 1B, the maximum permissible RF exposure for an uncontrolled environment is 1 mW/cm² for the frequencies used in this device. The worst case power for each antenna at the center frequency of the band of operation is used for the calculation below. The power density at a 20 cm distance is shown. As shown, the calculated power density is well below the FCC's limit.

The actual power density for the EUT calculated as shown below.

$$S = (P \times G) / (4 \times \pi \times d^2)$$

where:

S = power density

P = transmitter conducted power in (W)

G = antenna numeric gain

d = distance to radiation center (m)

Frequency (MHz)	Antenna	Antenna Max Gain (dBi)	Numeric Gain	Power EIRP (mW)	Separation Distance (cm)	Power Density (mW/cm ²)
2437	Inverted F PCB	9	7.9	34	20	0.05

NOTICE:

Radiation Exposure Statement

This equipment shall only be installed and operated with the antenna types shown above with gains not more than those shown above for each of the antennas, respectively, and installed with a minimum of 20 cm of separation distance between the antenna and all persons during normal operation.